# COMPLETE INDEX

for

# PERPETUAL TROUBLE SHOOTER'S MANUALS

Volumes I, II, III, IV, V, VI, VII, VIII, IX, and X

by

John F. Rider

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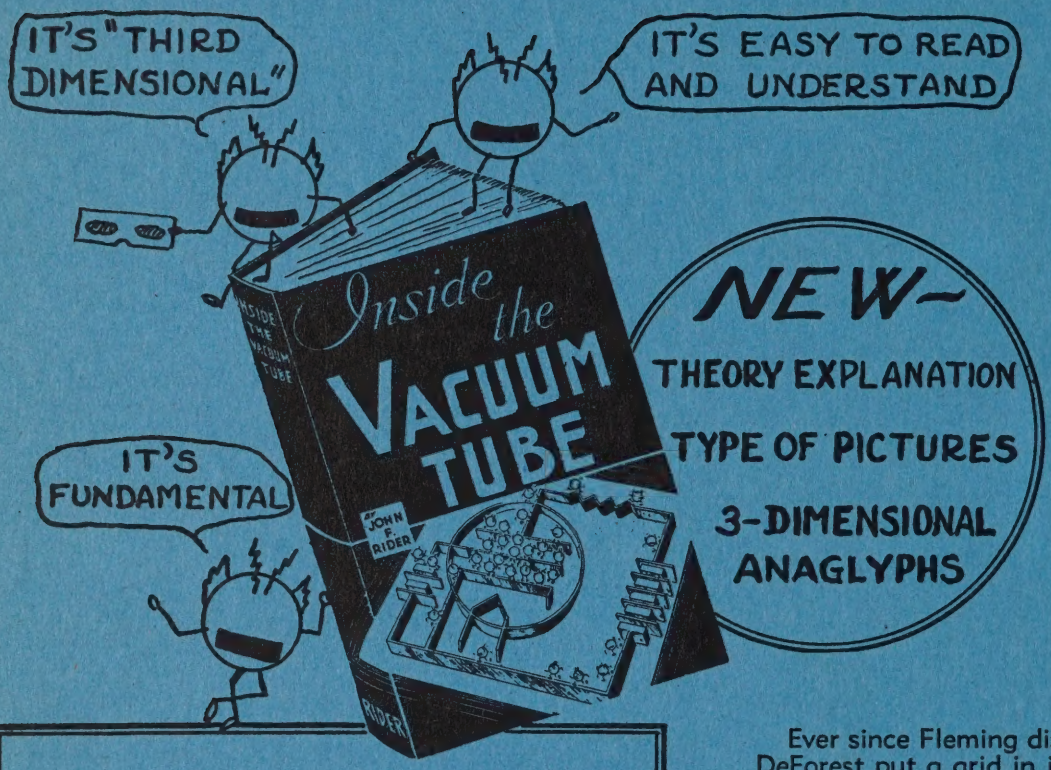
# A New Book Explaining

# Vacuum Tubes

## in a Different Way

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Ever since Fleming discovered his "valve" and DeForest put a grid in it, thousands upon thousands of pages have been written on how and why the vacuum tube functions. Here is a new approach—one which affords the clearest understanding of the subject. The presentation is aimed for the man who is starting out in radio and who desires not only a solid grounding in the theory, but also a good working knowledge of tubes. At the same time it is a perfect refresher for the man who studied the subject long ago.

Throughout the book, which covers diodes, triodes, screen-grid tubes, and pentodes, the aim is to give the reader a clear physical picture of exactly what is happening within the tube—inclusive of the development of characteristic curves of all kinds. The anaglyphs giving a three-dimensional picture of phenomena heretofore seen in only two dimensions, are an innovation in radio texts. Two-colored spectacles are provided with the book for viewing these anaglyphs. Like the text—the illustrations are new—they live—show action—thereby simplify the explanation of tube behavior.

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# AUTHOR'S FOREWORD

Volume X is a continuation of the "Perpetual Trouble Shooter's Manual" series. In addition to this Volumes I, II, III, IV, V, VI, VII, VIII and IX have been published.

Inasmuch as owners of preceding volumes are familiar with the Manual and with the nature of its contents, an elaborate description is not required. However, it might be well to state that the information presented in Volume X is condensed as much as possible in accordance with the requests of owners of previous volumes of this publication. You will find that in many cases facts associated with a number of the receivers contained under any one manufacturer's heading have been grouped upon a single page, and references are made to this page in the description of the various models which employ a component, utilize the adjustment, and in general make use of the facts given upon this company's reference page. By arranging the contents in this manner we avoid duplication and make space available for the inclusion of a greater number of schematics. Examples of the foregoing are push-button tuning adjustments, dial cable adjustments, etc.

In a number of instances references are made to "conventional alignment." This term is used in conjunction with simple receivers which do not require elaborate alignment instructions. Such conventional alignment was described in the "How It Works" section of Volume VIII, and we feel that so many men are familiar with simple alignment that it would be a waste of space to include such alignment in conjunction with each of the receivers contained in the Manual.

We feel that reference to a given source of such information makes available additional space so badly needed for the inclusion of the large number of receiver models being manufactured. An example of the successful application of such space conservation is the fact that Volume X contains approximately 2600 models in its 1650 pages; whereas the number of models which hitherto have been incorporated in a Manual with an equivalent number of pages was roughly 1900.

We take this opportunity to request comments and criticism concerning the contents and make-up of Volume X.

JOHN F. RIDER.

# HOW TO USE THIS INDEX

This index covers all Rider's Manuals issued thus far. The three columns of pages are used to identify the pages employed in the various series of manuals published up to the present time. The column headed "Revised Pages" covers the ten individual Volumes I, II, III, IV, V, VI, VII, VIII, IX, and X which were arranged with a new type of folio. With respect to earlier editions of Rider's Manuals, the revised folios appear only in Volumes I and II.

Hence any material which appears in Volumes I or II is shown in the columns marked "Revised" and also "Early," establishing the correct page in either of these issues of manuals. Thus if you own the early editions of Volumes I and II and the regular editions of Volumes III, IV, V, VI, VII, VIII, IX, and X you will refer to the "Early" column for material in Volumes I and II and to the "Revised" column for material in subsequent volumes. This work is simplified by the fact that the "Early" column has its equivalent in the "Revised" column only for the material which has been shown in Volumes I and II.

Referring to the folios listed in the "Revised" column and covering all manuals, the number 1, before the page number, establishes the data as being in Volume I. The numeral 2 before the page number establishes the material as being in Volume II. The numeral 3 before the page number establishes the material as being in Volume III and the numeral 4 before the page number establishes the material as being in Volume IV, etc.

Concerning the pages listed in the "Early" column, all page numbers preceded by an asterisk (*) are in Volume I. All numbers which do not have an asterisk are in Volume II. The word "Front" shown in the "Early" column establishes that the material was shown in the front end of Volume II.

An example of the use of this index is as follows:

Electrical Research Laboratories, Inc.

| Model | Revised Pages | Early Pages | Radiotron Complete Pages |
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The receiver model 75, 77 (231) is on page Erla 2-6 in the revised Volume II; on page 252-I of the early Volume II and on page 870 of the Radiotron Complete Manual. The receiver model 81, 82 (245) is on page Erla 1-5 in the revised Volume I; on page 252-C in the early Volume I and on page 871 in the Complete Manual. The model 81-P, 82-P, 30 (248) is on page Erla 3-2 in Volume III and on page 872 of the Complete Manual.

Volumes III, IV, V, VI, VII, VIII, IX, and X pages require no comment, since their identity is established by the numerals 3, 4, 5, 6, 7, 8, 9, or 10 which precede the page number.

When seeking any page, remember that the manufacturers' names are arranged alphabetically and that the trade names are shown in connection with the folios. Sometimes more than one model using the same chassis is listed upon the same line. Where a chassis is used in more than one model, the extra model numbers appear in their numerical order, referring back to the lowest model number. Chassis numbers are also listed numerically and cross indexed to the lowest model number.

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D = DC
F = 25 cycles
Q = Battery operated
Z = 32 volts DC
E = European long wave range
P = Phonograph conn.

Prefixes:

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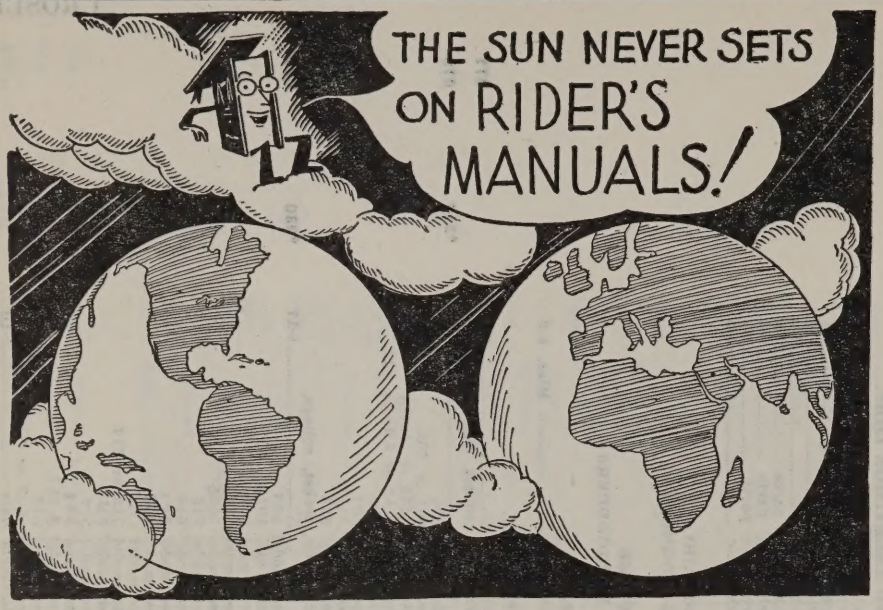


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**GENERAL HOUSEHOLD UTILITIES CO.**

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| Suffixes: | W = 115 volts, 50-60 cycles<br>X = 115 volts, 25-50 cycles<br>Z = 110-135-220-250 volts, 50-60 cycles |
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Model numbers in which the figure 30 appears are housed in the Playfellow cabinet
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Model numbers in which the figure 33 appears are housed in the Duette cabinet
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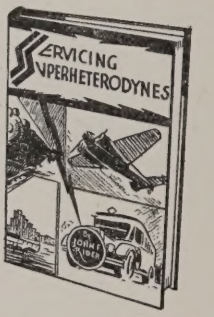


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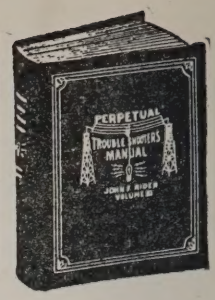

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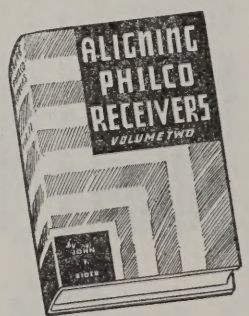


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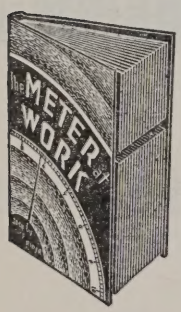


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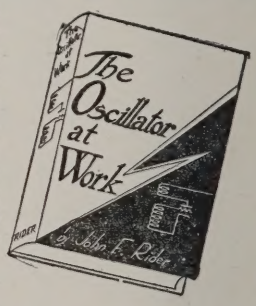


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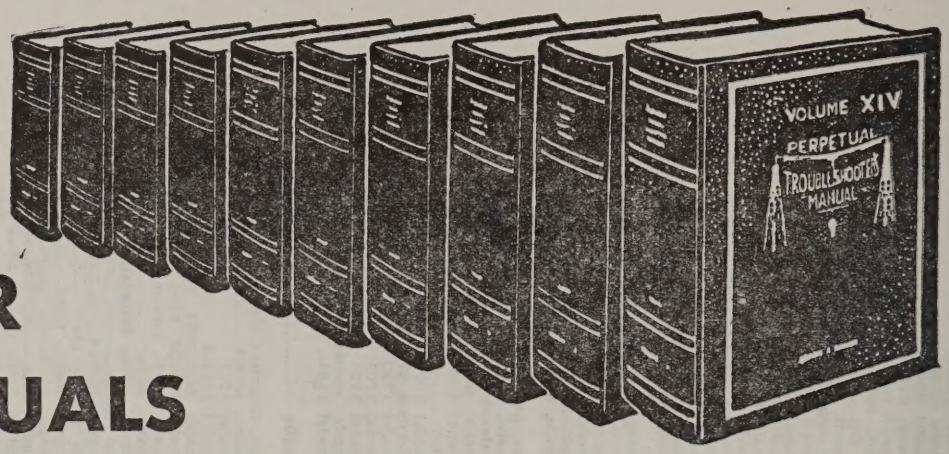


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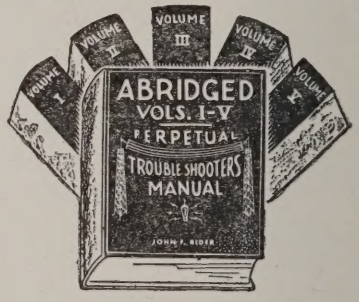


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1—117 volts, 50-60 cycles
2—2-volt battery
3—117 volts, AC-DC Underwriters Approved
7—117 volts, AC-DC
8—117 volts, 25 cycles
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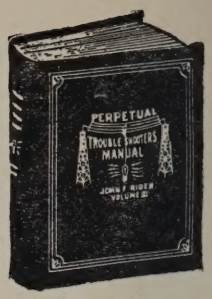


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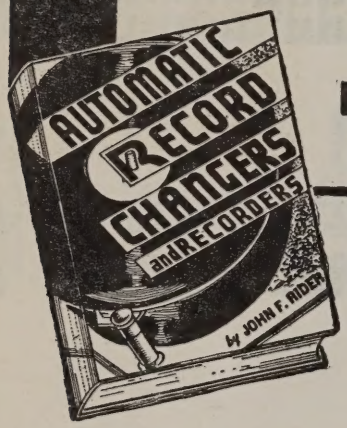


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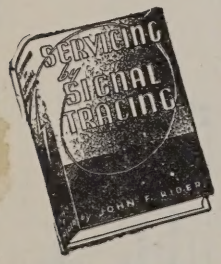


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